

(Citation 4:)

JP U.M. Application Disclosure No. 50-74875 - June 30, 1975

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Applicant: Nippon Denki K.K., Tokyo, Japan

Title: Device for converting infrared light into visible light  
and emitting converted light.

Claim:

A device for converting infrared light into visible light and emitting converted light, comprising a two-terminal metal stem, a GaAs:Si infrared light emitting diode, an infrared-light-to-visible-light conversion phosphor single crystal and a filter,

the center part of said two-terminal metal stem being formed to be a concave and having the internal surface of said concave at least gold-plated,

said infrared light emitting diode and said infrared-light-to-visible-light conversion phosphor single crystal machined to be triangular being secured in the concave of said two-terminal metal stem, with a radiation surface of the diode and one side of the single crystal closed contacted, wherein a bias electrode is electrically connected to each terminal of the stem, and

said filter being formed by performing two-tone multilayer film coating and airtightly sealing the concave of the stem.